



Material - BS 3100 Grade AW1

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 3100 Grade AW1 Steel Castings for General Engineering Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|--|--|
| Carbon | C % | 0.100 - 0.180 | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 0.600 max. | | |
| Manganese | Mn % | 0.600 - 1.000 | | |
| Phosphorus | P % | 0.050 max. | | |
| Sulphur | S % | 0.050 max. | | |
| Chromium | Cr % | 0.300 max. | | |
| Molybdenum | Mo % | 0.150 max. | | |
| Nickel | Ni % | 0.400 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Other | Ot % | 0.800 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 460 min. Yield Strength in Mpa - Elongation in % 12 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 25 J @ RT | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1015.0000 | SAE | USA | Casting |
| 1015 | AISI | USA | Casting |
| A 1040 1015 | ASTM | USA | Casting |
| A 108 Grade 1015 | ASTM | USA | Casting |
| A 29 1015 | ASTM | USA | Casting |
| A 510 1015 | ASTM | USA | Casting |
| A 512 Grade 1015 | ASTM | USA | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.